

AVC

Notice of Allowability	Application No.	Applicant(s)	
	09/451,979	SAMESHIMA, KATSUMI	
	Examiner Wai-Sing Louie	Art Unit 2814	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. This communication is responsive to 10/7/04.
2. The allowed claim(s) is/are 1 and 3-5.
3. The drawings filed on 30 November 1999 are accepted by the Examiner.
4. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All b) Some* c) None of the:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) hereto or 2) to Paper No./Mail Date _____.
 - (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

7. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. Notice of References Cited (PTO-892)
2. Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date 5/5/00
4. Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. Notice of Informal Patent Application (PTO-152)
6. Interview Summary (PTO-413),
Paper No./Mail Date _____.
7. Examiner's Amendment/Comment
8. Examiner's Statement of Reasons for Allowance
9. Other _____.


HOAI PHAM
PRIMARY EXAMINER

DETAILED ACTION

The argument in the appeal brief is persuasive and the finality of previous rejection is withdrawn. Claims 1 and 3-5 are allowed.

Allowable Subject Matter

The following is an examiner's statement of reasons for allowance:

The claimed invention is a ferroelectric memory, comprising:

- An insulation film having a concave portion at a top surface; and
- A laminated body obtained by laminating a plurality of layers on the top surface and etching a region of the plurality of layers corresponding to a region other than the concave portion, where
- The laminated body includes a lower electrode layer which is made of a gel dry film and brought into contact with a bottom surface of the concave portion, a ferroelectric layer formed on the lower electrode layer and an upper electrode layer formed on the ferroelectric layer, wherein
- A portion of the lower electrode layer is only embedded in the concave portion, and protrudes outward from an inner peripheral edge forming the concave portion, and a the of said portion of the lower electrode layer, a side of the ferroelectric layer and a side of the upper electrode layer are flush with each other.

The prior art of record does not disclose or suggest either in singly or in combination the following limitations and other elements in the claims:

- References Onishi (US 5,708,284) in combination with Knight et al. (US 4,737,422) do not disclose the laminated body includes a lower electrode layer which is made of a gel dry film and brought into contact with a bottom surface of the concave portion, and a portion of the lower electrode layer is only embedded in the concave portion.

Therefore, the above references do not disclose the claimed invention of present application and claims 1 and 3-5 are allowed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Wai-Sing Louie whose telephone number is (571) 272-1709. The examiner can normally be reached on 7:30 AM to 4:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wael Fahmy can be reached on (571) 272-1705. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Wsl
December 20, 2004.



HOAI PHAM
PRIMARY EXAMINER